

FIG. 1

092503 113  
0047 895F260

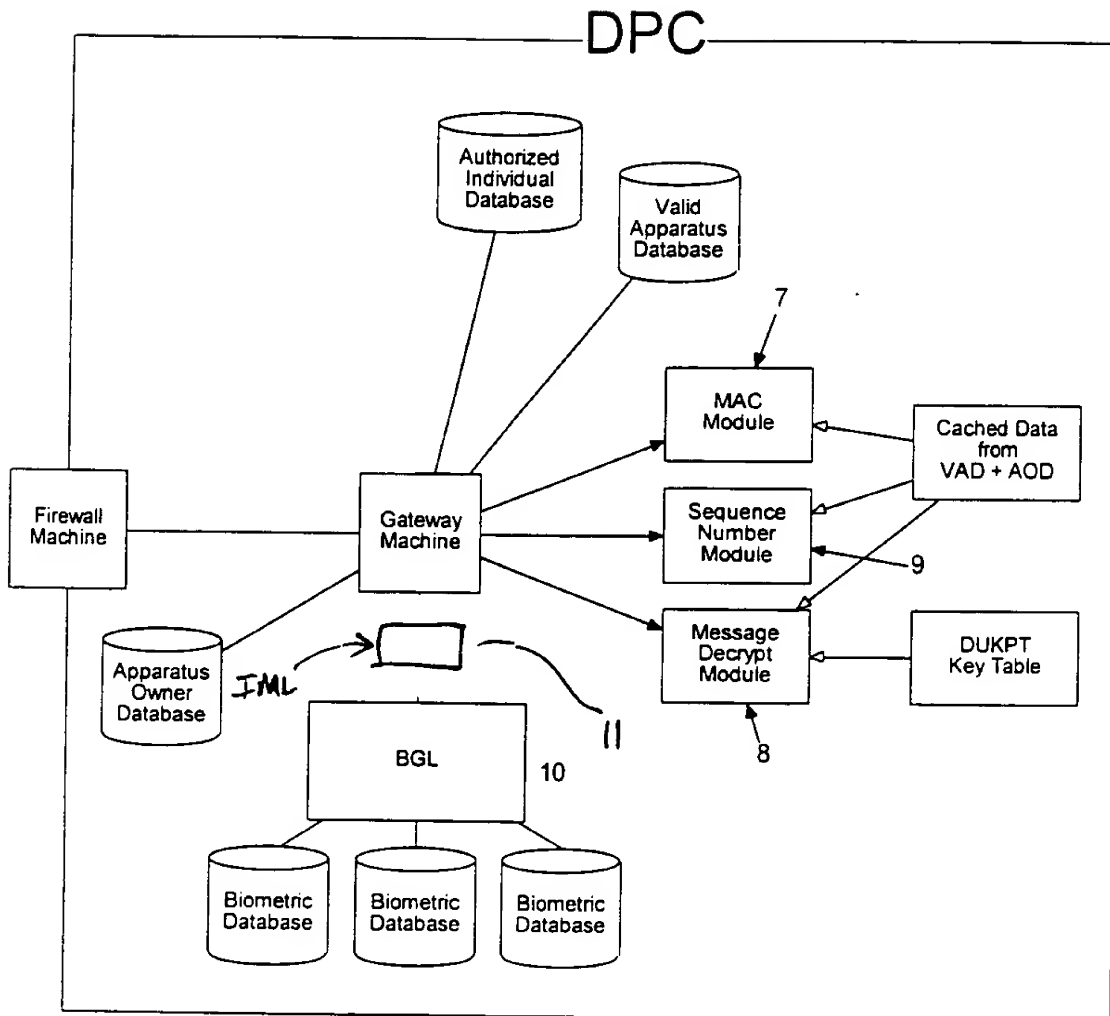


FIG. 2

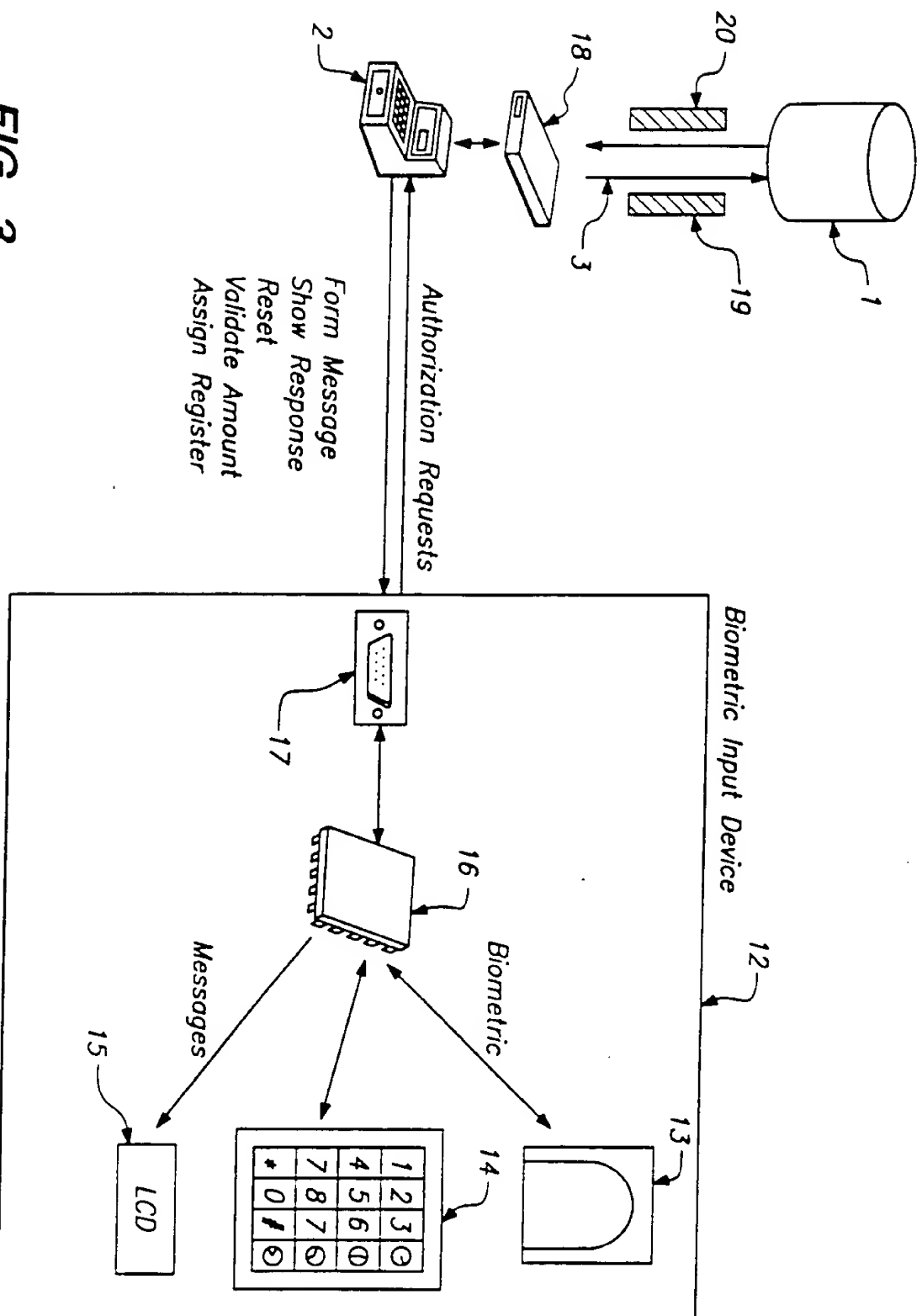


FIG. 3

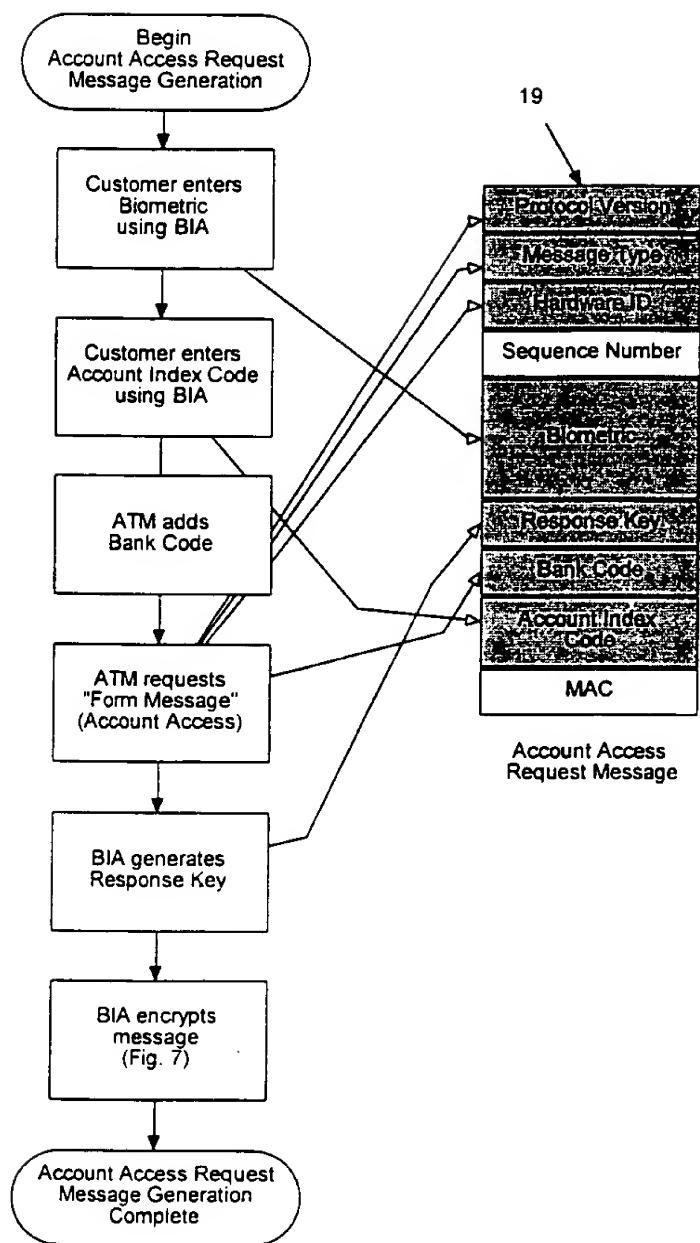


FIG. 4 a.

09215058 121798

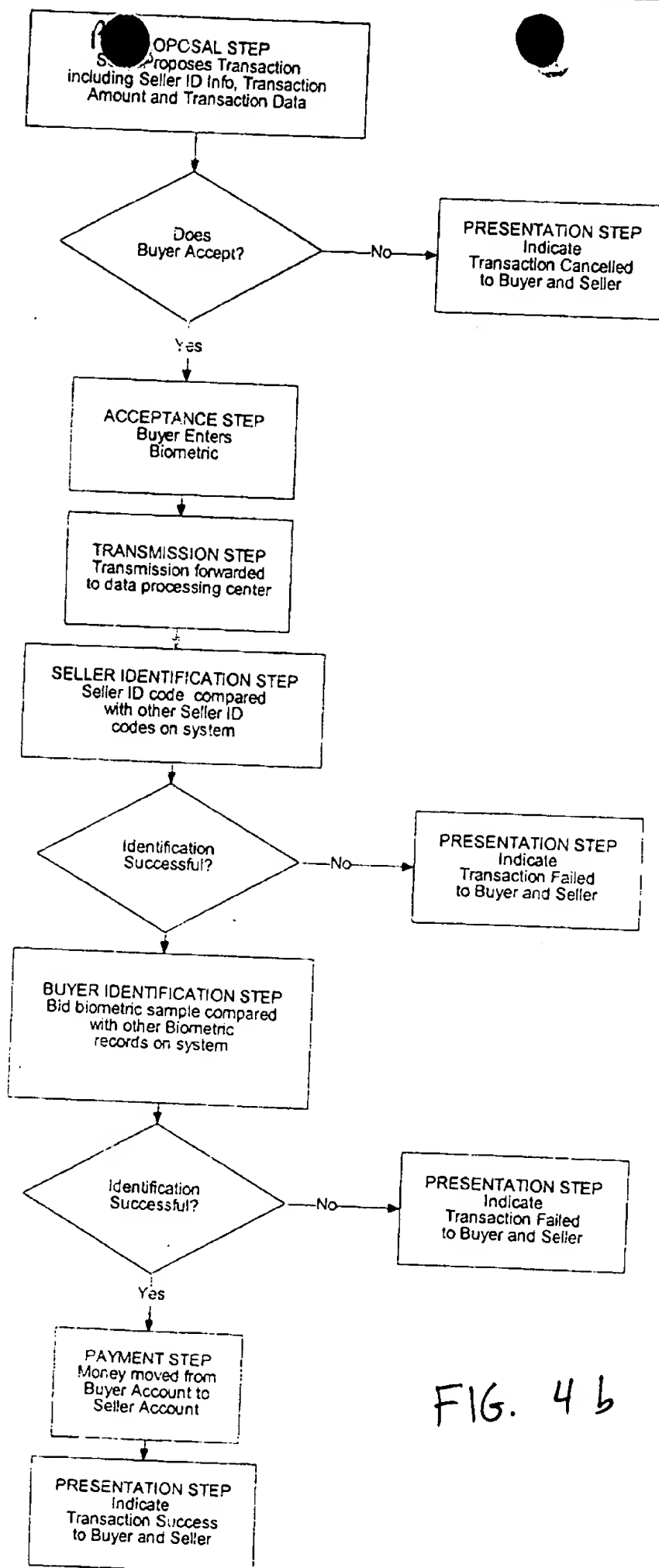
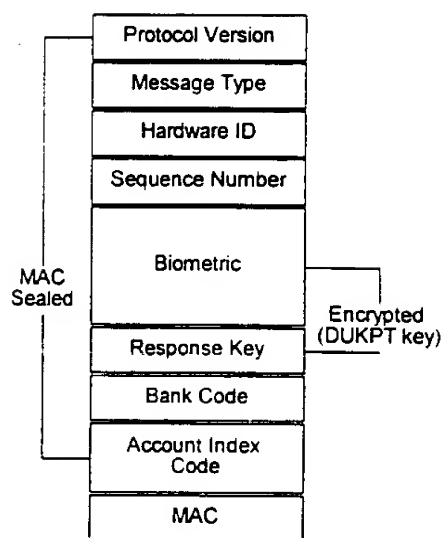
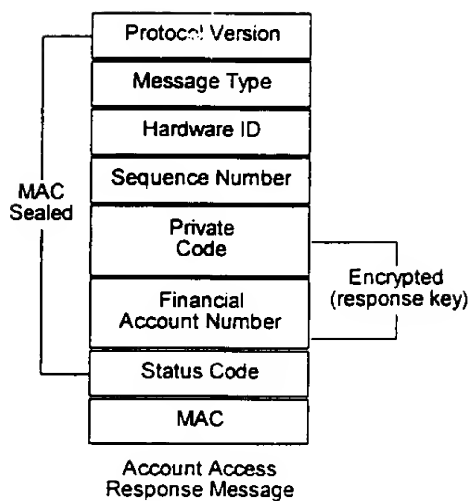


FIG. 4b



Account Access Request Message

FIG. 5



Account Access Response Message

FIG. 6

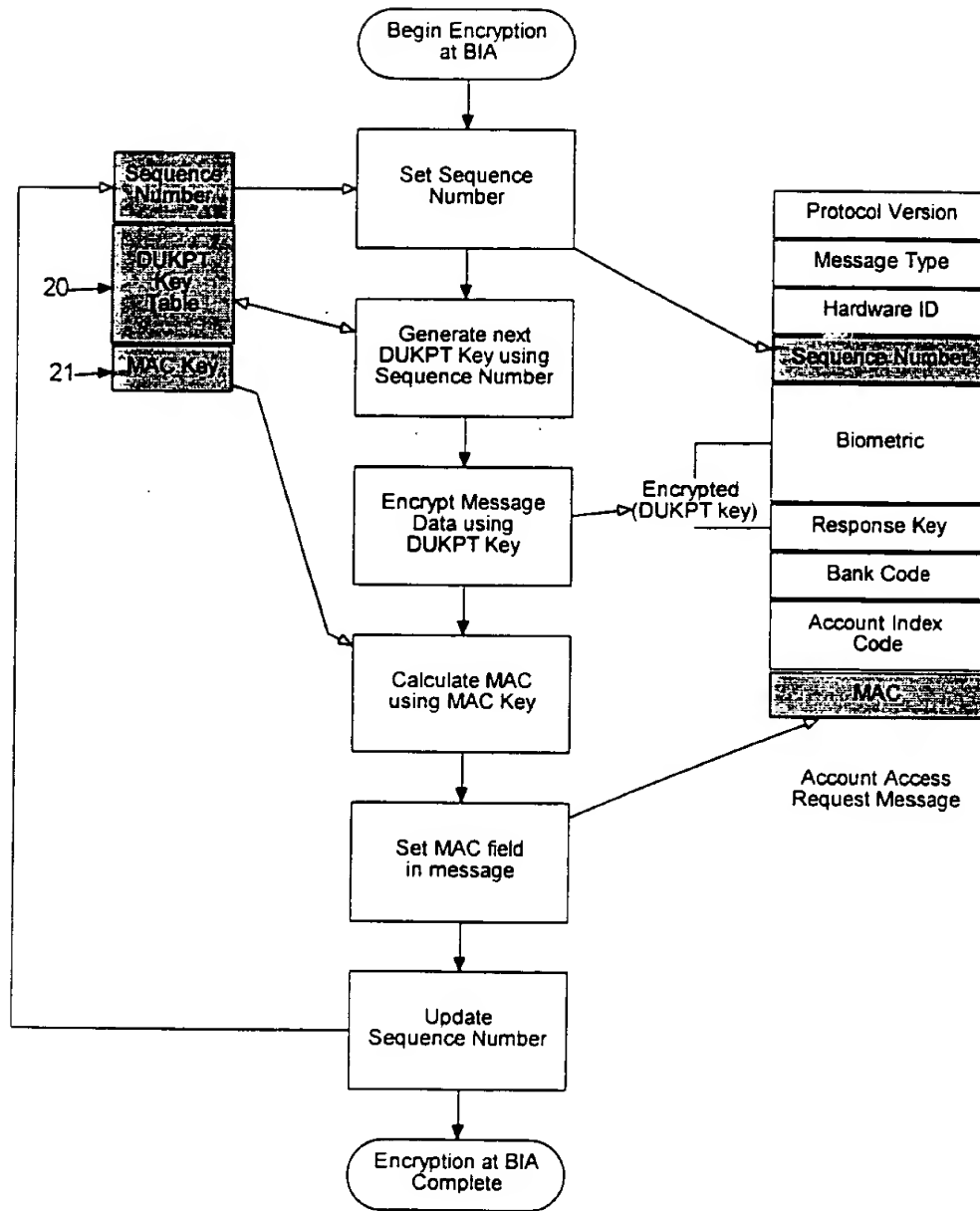


FIG. 7

09403493 85051260

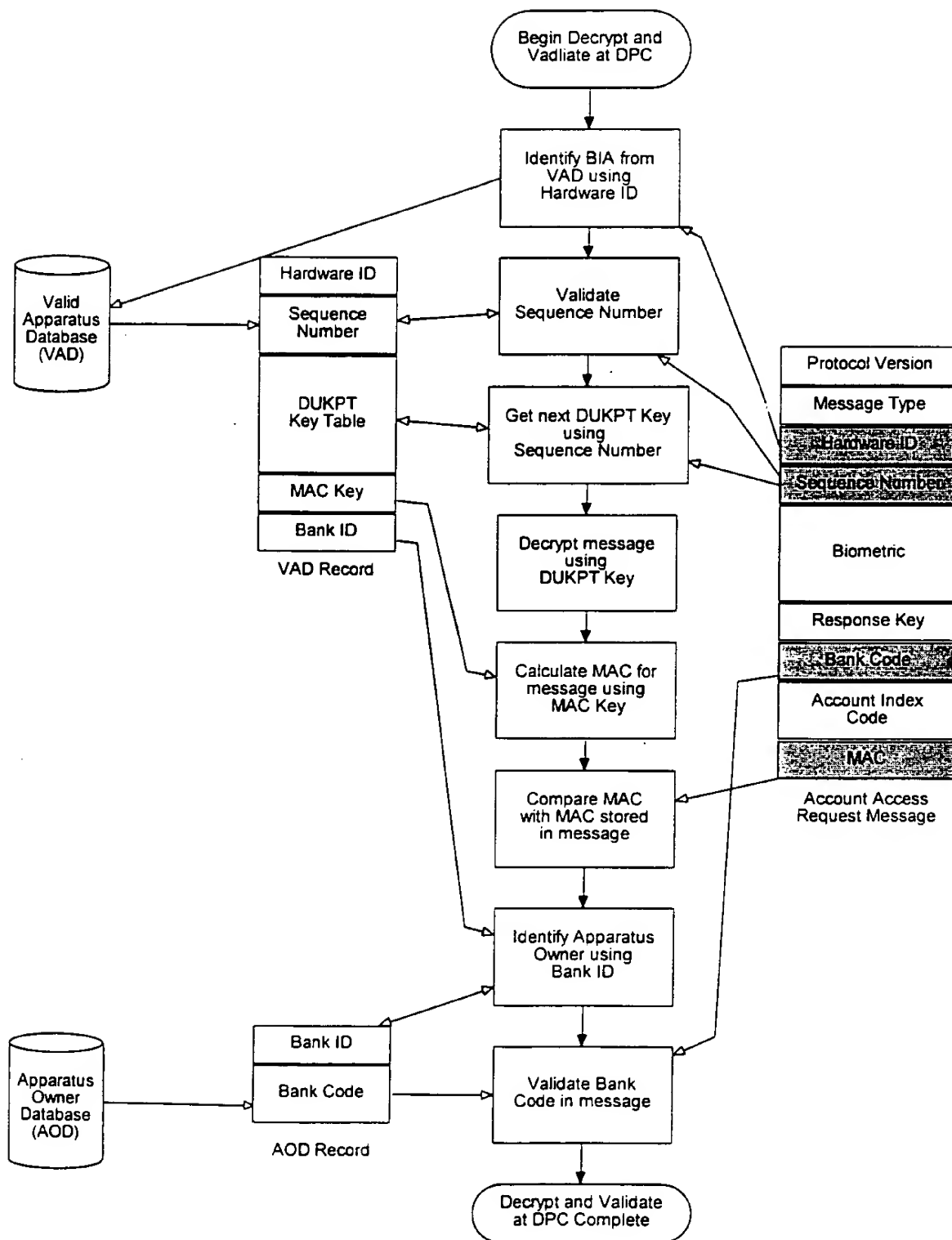
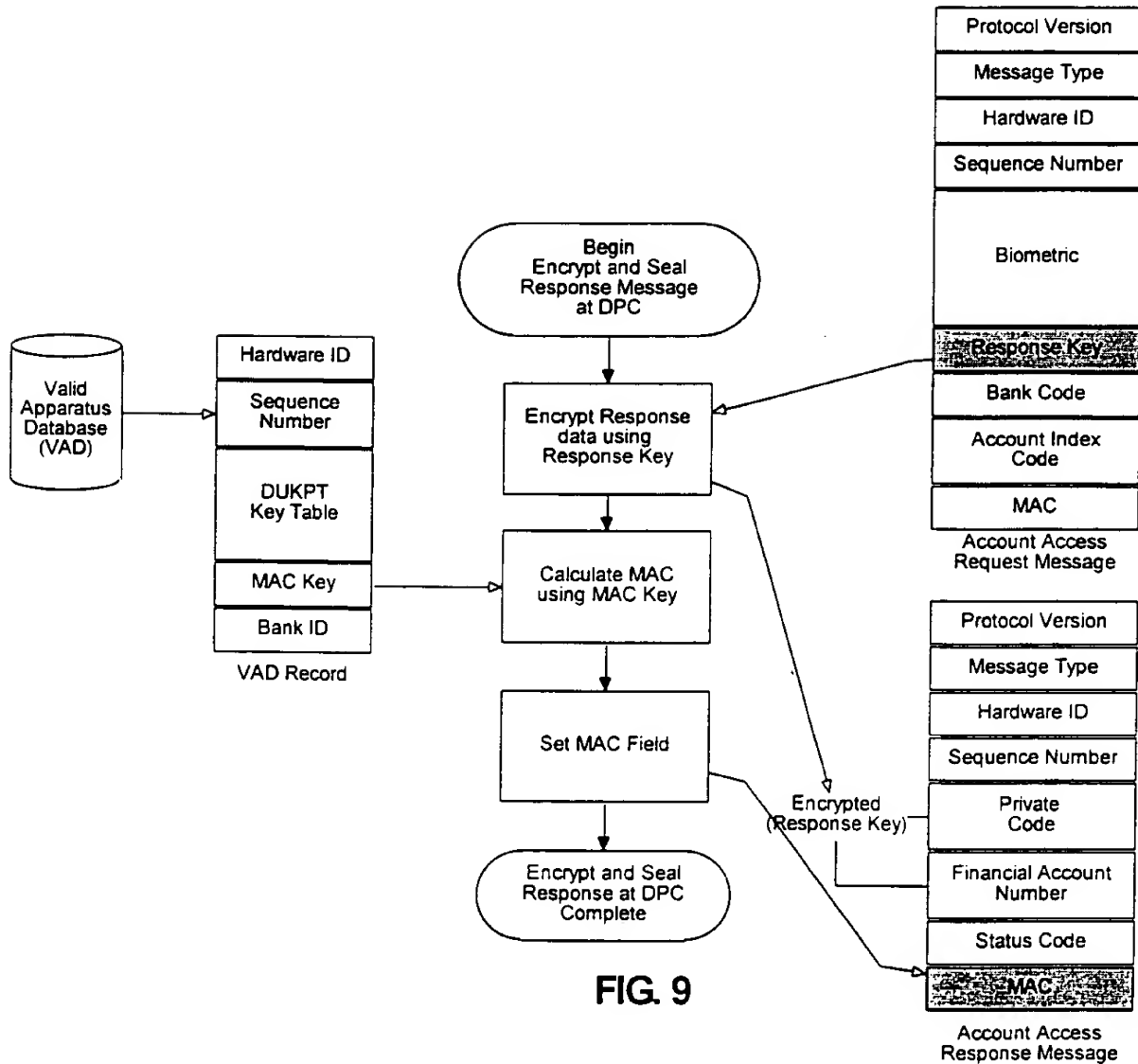


FIG. 8





```

graph TD
    Start([Begin Registration]) --> BIA_Enc[Encryption/Sealing Process at BIA  
(Fig. 7)]
    BIA_Enc --> DPC_Dec[Decryption/Validation Process at DPC  
(Fig. 8)]
    DPC_Dec --> Store_Bio[Store Biometric in IBD Record]
    
    Store_Bio --> IBD_Table
    subgraph IBD_Table [IBD Record]
        direction TB
        P_Bio[Primary Biometric]
        S_Bio[Secondary Biometric]
        Name[Name]
        Priv_Code[Private Code]
        Acc_Index[Account Index Code List]
        Acc_Num[Account Number List]
        Emerg_Index[Emergency Index Code]
        Re_Registered[Re-registered]
    end
    IBD_Table --> IBD[(Individual Biometric Database IBD)]
    
    Store_Bio --> Store_Data[Store Private Code and other data]
    Store_Data --> Reg_Request_Table
    subgraph Reg_Request_Table [Registration Request Message]
        direction TB
        Prot_Ver[Protocol Version]
        Msg_Type[Message Type]
        Hard_ID[Hardware ID]
        Seq_Num[Sequence Number]
        P_Bio2[Primary Biometric]
        S_Bio2[Secondary Biometric]
        Priv_Code2[Private Code]
        Acc_Index2[Account Index Code List]
        Fin_Acc_Num[Financial Account Number List]
        MAC[MAC]
    end
    
    Store_Data --> Re_Reg_Check[Re-Registration Check  
(Fig. 15)]
    Re_Reg_Check --> DPC_Enc[Encryption/Sealing Process at DPC  
(Fig. 9)]
    DPC_Enc --> BIA_Dec[Decrypt/Validate Process at BIA  
(Fig. 16)]
    BIA_Dec --> Display[Display Results]
    Display --> Complete([Registration Complete])
  
```

FIG. 10

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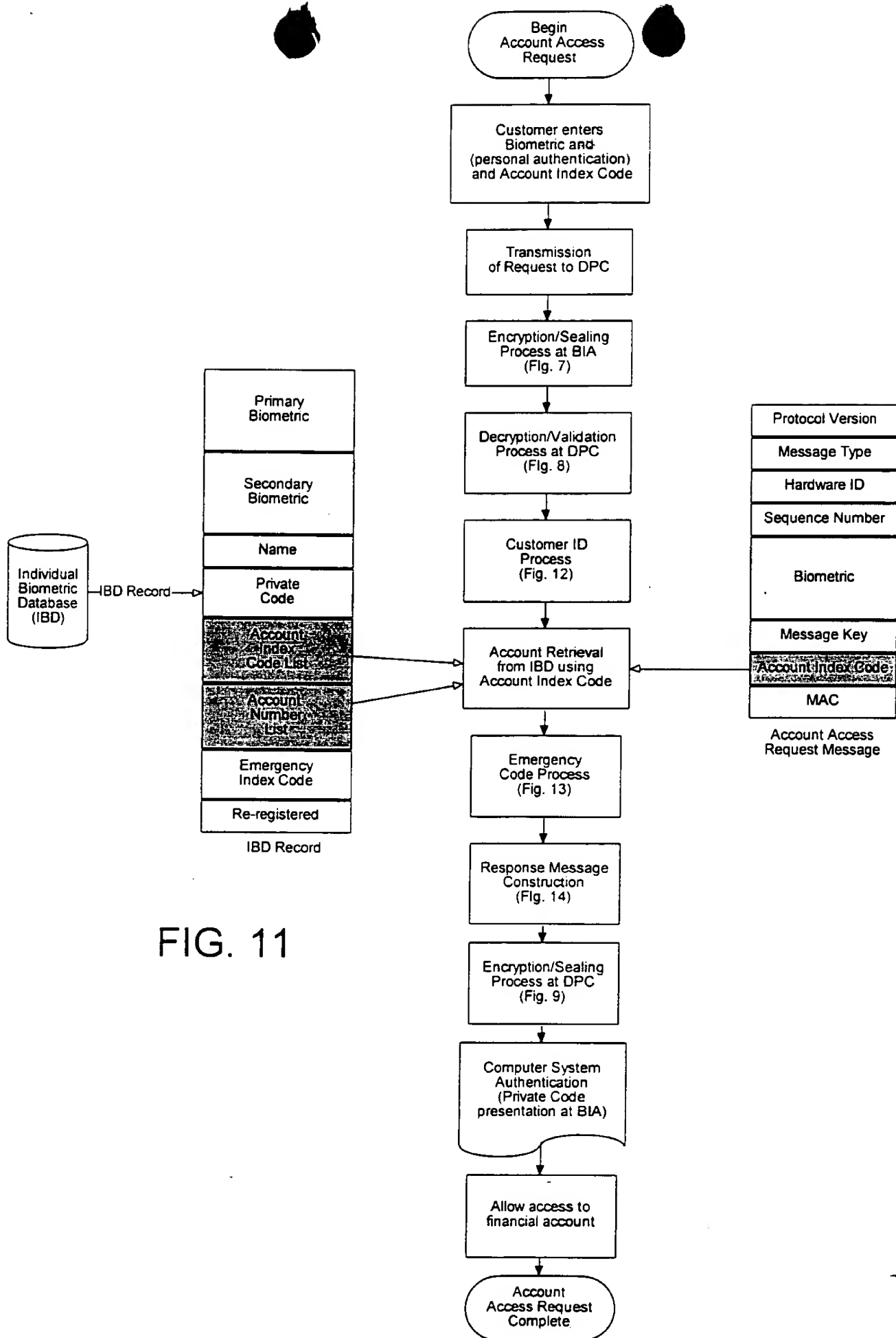


FIG. 11

00245038 191798  
00245038 191798

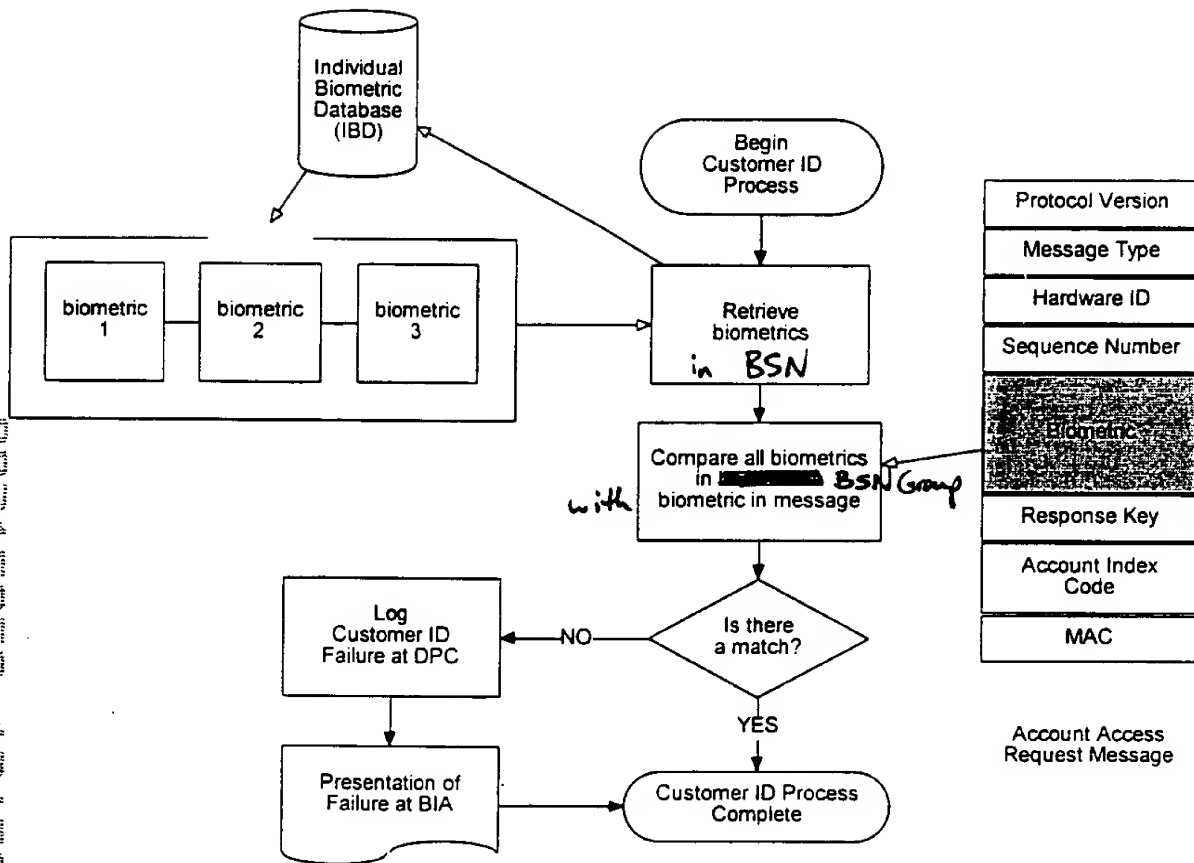


FIG. 12

```

graph TD
    Start([Account Access Response Message Construction]) --> Dec1{Customer Identified?}
    Dec1 -- NO --> Err1[Error Message: "customer not identified"  
Status Code: failed]
    Dec1 -- YES --> Dec2{Account Index Code OK?}
    Dec2 -- NO --> Err2[Set Error: access failed"  
Status Code: failed]
    Dec2 -- YES --> SetSC[Set Status Code: OK]
    SetSC --> RetPriv[Retrieve Private Code from IBD Record and set field in response message]
    RetPriv --> End([Account Access Response Message Construction Complete])
    Err1 --> Stack[Protocol Version  
Message Type  
Hardware ID  
Sequence Number  
Error Message  
Private Code  
Financial Account Number  
Status Code  
MAC]
    Err2 --> Stack
    RetPriv --> Stack
    
```

The flowchart illustrates the process of constructing an Account Access Response Message. It begins with a start node, followed by a decision diamond 'Customer Identified?'. If the answer is 'NO', it leads to an error box 'Error Message: "customer not identified" Status Code: failed'. If 'YES', it proceeds to another decision diamond 'Account Index Code OK?'. If 'NO', it leads to an error box 'Set Error: access failed" Status Code: failed'. If 'YES', it leads to a process box 'Set Status Code: OK', which then leads to 'Retrieve Private Code from IBD Record and set field in response message'. This step leads to the final end node 'Account Access Response Message Construction Complete'. Additionally, both error paths and the successful path lead to a vertical stack representing the 'Account Access Response Message' structure, which includes fields: Protocol Version, Message Type, Hardware ID, Sequence Number, Error Message, Private Code, Financial Account Number, Status Code, and MAC. Arrows indicate that the error messages and the retrieved private code/status code are placed into their respective fields in the message structure.

FIG. 13

09215053-47798

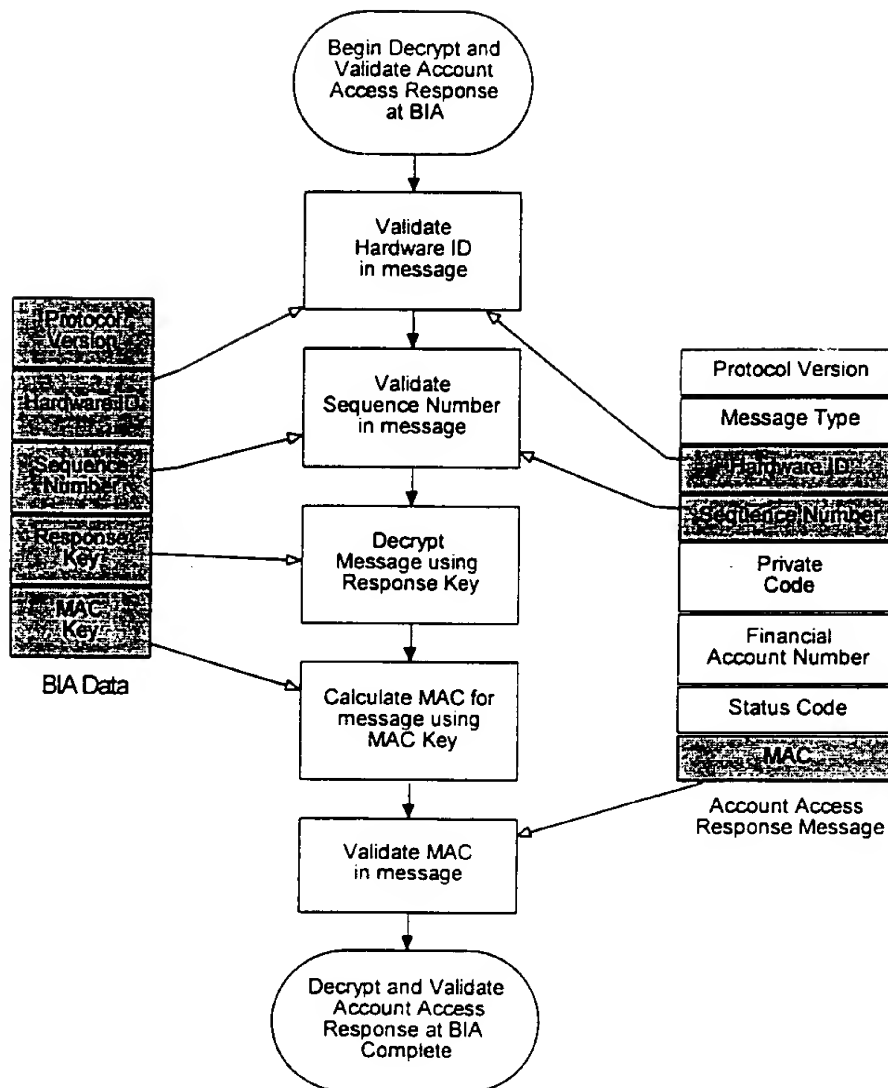


FIG. 14